

IN THE CLAIMS

1. through 48. (Cancelled)

49. (Currently amended) An soybean oilseed plant having a nucleic acid molecule comprising a promoter functional in a host plant cell operably linked to a polynucleotide that has at least 70% identity to SEQ ID NO: 2 or complement thereof or fragment of either, and a transcriptional termination region functional in said host plant cell, wherein a seed of said oilseed soybean plant exhibits a modified fatty acid composition that is about 26-80% oleic acid, about 2.97-49.92% linoleic acid, and about 3.38-8.81% linolenic acid.

50. (Canceled) ~~The oilseed plant according to Claim 49, wherein said oilseed plant is a soybean plant.~~

51. (Canceled) ~~The oilseed plant according to Claim 49, wherein said oilseed plant is a canola plant.~~

52. (Currently amended) The oilseed soybean plant according to Claim 49, wherein said polynucleotide has at least 80% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

53. (Currently amended) The oilseed soybean plant according to Claim 49, wherein said polynucleotide has at least 90% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

54. (Currently amended) The oilseed soybean plant according to Claim 49, wherein said polynucleotide has at least 95% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

55. (Currently amended) The oilseed soybean plant according to Claim 49, wherein said polynucleotide is SEQ ID NO: 2 or complement thereof or fragment of either.

56. (Currently amended) The ~~oilseed~~ soybean plant according to Claim 49, wherein said promoter is a heterologous promoter.

57. (Canceled) ~~The oilseed plant according to Claim 49, wherein said polynucleotide is a fad2 intron or complement thereof or fragment of either.~~

58. (Currently amended) An ~~oilseed~~ soybean plant having a nucleic acid molecule comprising a promoter functional in a host plant cell operably linked to a polynucleotide that is a ~~fad2 or a fad3~~ intron or complement thereof or fragment of either, and a transcriptional termination region functional in said host plant cell, wherein a seed of said ~~oilseed~~ soybean plant exhibits a modified fatty acid composition that is about 26-80% oleic acid, about 2.97-49.92% linoleic acid, and about 3.38-8.81% linolenic acid.

59. (Canceled) ~~The oilseed plant according to Claim 58, wherein said oilseed plant is a soybean plant.~~

60. (Canceled) ~~The oilseed plant according to Claim 58, wherein said oilseed plant is a canola plant.~~

61. (Currently amended) The ~~oilseed~~ soybean plant according to Claim 58, wherein said polynucleotide is SEQ ID NO: 2 or complement thereof or fragment of either.

62. (Currently amended) The ~~oilseed~~ soybean plant according to Claim 58, wherein said promoter is a heterologous promoter.

63. (Canceled) ~~The oilseed plant according to Claim 58, wherein said polynucleotide is a fad2 intron or complement thereof or fragment of either.~~

64. (Canceled) ~~The oilseed plant according to Claim 58, wherein said polynucleotide is a fad3 intron or complement thereof or fragment of either.~~

65. (Currently amended) An soybean ~~oilseed~~ plant having a nucleic acid molecule comprising a promoter functional in a host plant cell operably linked to a polynucleotide that has at least 70% identity to SEQ ID NO: 2 or complement thereof or fragment of either, and a transcriptional termination region functional in said host plant cell, wherein a seed of said ~~oilseed~~ soybean plant exhibits a modified fatty acid composition that is about 50-75% oleic acid, about 10-30% linoleic acid, and about 3% linolenic acid.

66. (Canceled) ~~The oilseed plant according to Claim 65, wherein said oilseed plant is a soybean plant.~~

67. (Canceled) ~~The oilseed plant according to Claim 65, wherein said oilseed plant is a canola plant.~~

68. (Currently amended) The soybean ~~oilseed~~ plant according to Claim 65, wherein said polynucleotide has at least 80% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

69. (Currently amended) The soybean ~~oilseed~~ plant according to Claim 65, wherein said polynucleotide has at least 90% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

70. (Currently amended) The soybean ~~oilseed~~ plant according to Claim 65, wherein said polynucleotide has at least 95% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

71. (Currently amended) The soybean ~~oilseed~~ plant according to Claim 65, wherein said polynucleotide is SEQ ID NO: 2 or complement thereof or fragment of either.

72. (Currently amended) The soybean oilseed plant according to Claim 65, wherein said promoter is a heterologous promoter.

73. (Canceled) ~~The oilseed plant according to Claim 65, wherein said polynucleotide is a fad2 intron or complement thereof or fragment of either.~~

74. (Currently amended) An soybean oilseed plant having a nucleic acid molecule comprising a promoter functional in a host plant cell operably linked to a polynucleotide that is a fad2 ~~or a fad3~~ intron or complement thereof or fragment of either, and a transcriptional termination region functional in said host plant cell, wherein a seed of said soybean oilseed plant exhibits a modified fatty acid composition that is about 50-75% oleic acid, about 10-30% linoleic acid, and about 3% linolenic acid.

75. (Canceled) ~~The oilseed plant according to Claim 74, wherein said oilseed plant is a soybean plant.~~

76. (Canceled) ~~The oilseed plant according to Claim 74, wherein said oilseed plant is a canola plant.~~

77. (Currently amended) The soybean oilseed plant according to Claim 74, wherein said polynucleotide is SEQ ID NO: 2 or complement thereof or fragment of either.

78. (Currently amended) The soybean oilseed plant according to Claim 74, wherein said promoter functional in a host plant cell is a heterologous promoter.

79. (Canceled) ~~The oilseed plant according to Claim 74, wherein said polynucleotide is a fad2 intron or complement thereof or fragment of either.~~

80. (Canceled) ~~The oilseed plant according to Claim 74, wherein said polynucleotide is a fad3 intron or complement thereof or fragment of either.~~

81. (Currently amended) An soybean oilseed plant having a nucleic acid molecule comprising a promoter functional in a host plant cell operably linked to a polynucleotide that has at least 70% identity to SEQ ID NO: 2 or complement thereof or fragment of either, and a transcriptional termination region functional in said host plant cell, wherein a seed of said soybean oilseed plant exhibits a modified fatty acid composition that is about 80-85% oleic acid, about 1-2% linoleic acid, and about 1-3% linolenic acid.

82. (Canceled) ~~The oilseed plant according to Claim 81, wherein said oilseed plant is a soybean plant.~~

83. (Canceled) ~~The oilseed plant according to Claim 81, wherein said oilseed plant is a canola plant.~~

84. (Currently amended) The soybean oilseed plant according to Claim 81, wherein said polynucleotide has at least 80% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

85. (Currently amended) The soybean oilseed plant according to Claim 81, wherein said polynucleotide has at least 90% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

86. (Currently amended) The soybean oilseed plant according to Claim 81, wherein said polynucleotide has at least 95% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

87. (Currently amended) The soybean oilseed plant according to Claim 81, wherein said polynucleotide is SEQ ID NO: 2 or complement thereof or fragment of either.

88. (Currently amended) The soybean oilseed plant according to Claim 81, wherein said promoter is a heterologous promoter.

89. (Canceled) ~~The oilseed plant according to Claim 81, wherein said polynucleotide is a fad2 intron or complement thereof or fragment of either.~~

90. (Currently amended) An soybean oilseed plant having a nucleic acid molecule comprising a promoter functional in a host plant cell operably linked to a polynucleotide that is a fad2 or a fad3 intron or complement thereof or fragment of either, and a transcriptional termination region functional in said host plant cell, wherein a seed of said oilseed plant exhibits a modified fatty acid composition that is about 80-85% oleic acid, about 1-2% linoleic acid, and about 1-3% linolenic acid.

91. (Currently amended) The soybean oilseed plant according to Claim 90, wherein said oilseed plant is a soybean plant.

92. (Currently amended) The soybean oilseed plant according to Claim 90, wherein said oilseed plant is a canola plant.

93. (Currently amended) The soybean oilseed plant according to Claim 90, wherein said polynucleotide is SEQ ID NO: 2 or complement thereof or fragment or either.

94. (Currently amended) The soybean oilseed plant according to Claim 90, wherein said promoter is a heterologous promoter.

95. (Canceled) ~~The oilseed plant according to Claim 90, wherein said polynucleotide is a fad2 intron or complement thereof or fragment of either.~~

96. (Canceled) ~~The oilseed plant according to Claim 90, wherein said polynucleotide is a fad3 intron or complement thereof or fragment of either.~~

97. (Currently Amended) A method of modifying the fatty acid composition in a seed of an ~~oilseed~~ soybean plant comprising:

growing an oilseed plant that has a nucleic acid molecule comprising a promoter functional in a host plant cell operably linked to a polynucleotide that is a ~~fad2~~ ~~or a fad3~~ intron or complement thereof or fragment of either, and a transcriptional termination region functional in said host plant cell, and

harvesting said seed of said ~~oilseed~~ soybean plant, wherein said seed exhibits a modified fatty acid composition that is about 26-80% oleic acid, about 2.97-49.92% linoleic acid, and about 3.38-8.81% linolenic acid.

98. (New) The soybean plant according to Claim 97, wherein said polynucleotide has at least 80% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

99. (New) The soybean plant according to Claim 97, wherein said polynucleotide has at least 90% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

100. (New) The soybean plant according to Claim 97, wherein said polynucleotide has at least 95% identity to SEQ ID NO: 2 or complement thereof or fragment of either.

101. (New) The soybean plant according to Claim 97, wherein said polynucleotide is SEQ ID NO: 2 or complement thereof or fragment of either.

102. (New) The soybean plant according to Claim 97, wherein said promoter is a heterologous promoter.